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Date of Approval____

FREEDOM OF INFORMATION SUMMARY

ANADA 200-299

Indication for use: Ivermectin Pour-On applied at the recommended dose level of 500mcg/kg is indicated for the effective control and treatment of these parasites.

Sponsored by:

Med-Pharmex, Inc. 2727 Thompson Creek Road Pomona, CA 91767-1861

ANADA 200-299

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FREEDOM OF INFORMATION SUMMARY

1. GENERAL INFORMATION:

ANADA:

200-299

Sponsor:

Med-Pharmex, Inc.

2727 Thompson Creek Road Pomona, CA 91767-1861

Generic Name:

Ivermectin Topical Liquid

Trade Name:

Ivermectin Pour-On for Cattle

Dosage Form:

Topical Solution

How Supplied:

8.5 fl oz/250 mL, 33.8 fl oz/1 L, 84.5 fl oz/2.5 L and 3.785 L

(1 gallon) Bottles & 169 fl oz/5 L collapsible pack

How Dispensed:

OTC

Amount of Active Ingredients:

5 mg/mL

Route of Administration:

Topical, on the dorsal midline, withers to tailhead

Species:

Cattle

Labeled Dosage:

500 mcg/kg (1 mL/22 lbs) body weight

Indications for Use:

Ivermectin Pour-On applied at the recommended dose level of 500mcg/kg is indicated for the effective

control and treatment of these parasites.

Gastrointestinal Roundworms

(adults and L₄) Ostertagia ostertagi

(including inhibited stage)

(adults and L_4) Haemonchus placei (adults and L_4) Trichostrongylusaxei (adults and L₄) T. colubriformis adults and L_4) Cooperia spp.

(adults) Strongyloides papillosus

(adults and L_4) Oesophagostomumradiatum (adults only) O. venulosum

Trichuris spp.

(adults)

Lungworms

Dictyocaulus viviparus

(adults and L_4)

Cattle Grubs

(parasitic stages)

Hypoderma bovis H. lineatum

Mites

Sarcoptes scabiei var. bovis

Lice

Linognathus vituli Haematopinus eurysternus Damalinia bovis Solenopotes capillatus

Horn Flies

Haematobia irritants

It is also used to control infections of gastrointestinal roundworms: O. ostertagi, O. radiatum, H. placei, T. axei, Cooperia punctata, and C. oncophora for 14 days after treatment.

Pioneer Product/
"Listed Product:

Ivomec® Pour-On for Cattle (Ivermectin) NADA 140-841 (Merial Ltd.)

2. TARGET ANIMAL SAFETY and DRUG EFFECTIVENESS

Under the provisions of the Federal Food, Drug, and Cosmetic Act, as amended by the Generic Animal Drug and Patent Term Restoration Act, (53 FR 50460, December 15, 1988, First GADPTRA Policy Letter) an abbreviated new animal drug application (ANADA) may be submitted for a generic version of an approved new animal drug (pioneer product). New target animal safety data, drug effectiveness data, and human food safety data (other than tissue residue data) are not required for approval of an ANADA. An ANADA relies on the target animal safety, drug effectiveness, and human food safety data in the pioneer's new animal drug application. The ANADA sponsor is required to show that the generic product is bioequivalent to the pioneer. ANADA's for drug products for food-producing animals will generally be required to include bioequivalence and tissue residue studies. A tissue residue study will generally be required to accompany clinical end-point and pharmacologic end-point bioequivalence studies, and blood level bioequivalence studies that can not quantify the concentration of the drug in blood throughout the established withdrawal period. For certain dosage forms, the agency will grant a waiver from conducting an in vivo bioequivalence study (55 FR 24645, June 18, 1990; Fifth GADPTRA Policy Letter; Bioequivalence Guideline, April, 1996).

Based upon the formulation characteristics of the generic product, Med-Pharmex, Inc. was granted a waiver on May 11, 1998, from conducting an *in vivo* bioequivalence study for Ivermectin Pour-On for Cattle. The generic and pioneer products contain the same active and inactive ingredients and are topical solutions.

3. HUMAN FOOD SAFETY:

TOLERANCE:

The tolerances established for the pioneer product apply to the generic product. The marker residue used to monitor the total residues of ivermectin and its metabolites is 22,23-dihydroavermectin B_1a . The target tissue is liver. A tolerance is established for 22,23-dihydroavermectin B_1a in liver (target tissue) as follows:

(i) Cattle: 100 parts per billion [21 CFR 556.344(b)]

A tolerance is established for 22,23-dihydroavermectin B₁a (marker residue) in muscle as follows:

(ii) Cattle: 10 parts per billion [21 CFR 556.344(b)]

WITHDRAWAL TIME

When a waiver from the requirement of an *in vivo* bioequivalence study is granted, the withdrawal times are those previously assigned to the pioneer product. The withdrawal time for ivermectin pour-on is established under 21 CFR 524.1193(e)(3) - 48 days in cattle.

REGULATORY METHODS FOR RESIDUES

The official analytical method for residues is an HPLC method with fluorescence detection. [The validated regulatory analytical methods for detection of residues of ivermectin are filed in the Food Additives analytical Manual on display in FDA's Freedom of Information Public Room (Room 12A-30, 5600 Fisher's Lane, Rockville, MD 20857) and are on file at the Center for Veterinary Medicine, FDA 7500 Standish Place, Rockville, MD 20855]

HUMAN SAFETY RELATIVE TO POSSESSION, HANDLING, AND ADMINISTRATION:

Labeling contains adequate caution/warning statements.

4. AGENCY CONCLUSIONS:

This is an Abbreviated New Animal Drug Application (ANADA) filed under section 512(b)(2) of the Federal, Food, Drug and Cosmetic (FFD&C) Act.

Safety and effectiveness for this generic animal drug, Ivermectin Pour-On for Cattle were established by demonstration of chemical equivalence to the pioneer product, Merial Limited's Ivomec[®] Pour-On for Cattle (NADA 140-841).

This generic product and the pioneer product have identical labeling indications for use in cattle. The route and method of administration of the two drugs are identical. Both drugs are administered topically. The generic and pioneer products contain the same active and inactive ingredients. Therefore, in compliance with FDA policy promulgated to implement section 512(b)(2) of FFD&C Act, no *in vivo* bioequivalency studies were necessary or required.

This ANADA satisfies the requirements of section 512 of the Act and demonstrates that Ivermectin Pour-On for Cattle is safe and effective for its labeled indications when used under it proposed conditions of use.

Attachments:

1. Generic Labeling:

Package Insert

Bottle Label

2. Pioneer Labeling

Package Insert

Bottle Label





9158201





(adults and L₄)

(adults and L₄) (adults and L₄) (adults and L₄) (adults and L₄) (adults and L₄)

(adults and L4)

(parasitic stages)

(adults)

pour-on for cattle

Contains 5 mg ivermectin/mL

Parasiticide

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

treatment and control of parasitism.

Introduction

Introduction

IVOMEC* (ivermectin) Pour-On delivers internal and external parasite control in one convenient low-volume application. Discovered and developed by scientists from Merck Research Laboratories, IVOMEC Pour-On contains vormectin, a unique chemical entity.

Indications

IVOMEC Pour-On applied at the recommended dose level of 500 mcg/kg is indicated for the effective control of these parasites.

Gastrointestinal Roundworms
Cetorlagia ostertagi
(including inhibited stage)
Haemonchus placei
Trichostrongylus axei
T. colubritomis
Congorie and Cooperia spp.
Strongyloides papillosus
Oesophagostomum radiatum
Trichuris spp.

Lungworms Dictyocaulus viviparus Cattle Grubs

Hypoderma bovis H. lineatum

Mites

Sarcoptes scablei var. bovis

Lice
Linognathus vituli
Haematopinus eurystemus
Damalinia bovis
Solenopotes capillatus

Horn Files Haematobia irritans

Parsistent Activity

IVOMEC Pour-On has been proved to effectively control infections and to protect cattle from re-infection with Ostertagia ostertagi, Oesophagostomum radiatum, Haemonchus placei, Trichostrongylus axei, Cooperia punctata and Cooperia oncophora for 14 days after treatment.

treatment.

Treatment of Cattle for Hom Flies

VOMEC Pour-On controls hom files (Haematobia irritans) for up to 28 days after dosing. For best results IVOMEC Pour-On should be part of a parasite control program for both internal and external parasites based on the epidemiology of these parasites. Consult your veterinarian or an entomologist for the most effective timing of applications.

Dosage
The dose rate is 1 mL for each 22 to of body weight. The formulation should be applied along the topline in a narrow strip extending from the withers to the tailhead.

Administration Squeeze-Measure-Pour System (8.5 fl oz/250 mL Bottle with 25 mL Metering Cup)

Attach the metering cup to the bottle.

Set the dose by turning the top section of the cup to align the correct body weight with the pointer on the knurled cap. When body weight is between markings, use the higher setting.

Hold the bottle upright and squeeze it to deliver a slight excess of the required dose as indicated by the calibration lines.

By releasing the pressure, the dose automatically adjusts to the correct level. Tilt the bottle to deliver the dose. The off (STOP) position will close the system between dosing.

Squeeze-Measure-Pour System (33.8 fl oz/1 Liter Bottle with 50 mL Metering Cup)

Attach the metering cup to the bottle.

Set the dose by turning the top section of the cup to align the correct body weight with the pointer on the knurled cap. When body weight is between markings, use the higher

Hold the bottle upright and squeeze it to deliver a slight excess of the required dose as indicated by the calibration

By releasing the pressure, the dose automatically adjusts to the correct level. Tilt the bottle to deliver the dose. When 220 lb (10 mL) or 330 lb (15 mL) dose is required, turn the pointer to "STOP" before delivering the dose. The off (STOP) position will close the system between dosing.

Collapsible Pack (84.5 fl oz/2.5 L Pack and 169 fl oz/5 L Pack) Connect the applicator gun to the collapsible pack as

Attach the open end of the draw-off tubing to the dosing equipment. (Because of the solvents used in the formulation, only the Protector Drench Gun from Instrument Supplies Limited, or equivalent, is recommended. Other applicators may exhibit compatibility problems resulting in locking, incorrect dosage or leakage.)

Replace the shipping cap with the draw-off cap and tighten down. Attach draw-off tubing to the draw-off cap.

Gently prime the applicator gun, checking for leaks.

Follow the manufacturer's directions for adjusting the dose.

When the interval between uses of the applicator gun is expected to exceed 12 hours, disconnect the gun and draw-off tubing from the product container and empty the product from the gun and tubing back into the product container. To prevent removal of special tubicants from the Protector Drench Gun, the gun and tubing must not be

*IVOMEC and Cattle Head Logo are registered trademarks of Merck & Co., Inc., Whitehouse Station, N.J., U.S.A.

Mode of Action

Ivermectin as a member of the avermectin family kills certain parasitic roundworms and ectoparasites, such as certain parasitic roundowns and ecoparasities, such as mites, lice, hom flies and other insects, its action is unique to the avermedin class of antiparasitic agents. This action involves a chemical that serves as a signal from one nerve cell to another, or from a nerve cell to a muscle cell. This chemical, a neurotransmitter, is called gamma-aminobutyric acid or GABA.

In roundworms, ivermectin stimulates the release of GABA from nerve endings and enhances binding of GABA to special receptors at nerve junctions, thus interrupting nerve impulses — thereby paralyzing and killing the parasite.

The enhancement of the GABA effect in anthropods such as mites, lice, and from files resembles that in roundworms except that nerve impulses are interrupted between the nerve ending and the muscle cell. Again, this leads to paralysis and death.

Ivermectin has no measurable effect against flukes or tapeworms, presumably because they do not have GABA as a nerve impulse transmitter.

The principal peripheral neurotransmitter in mammals, acetylcholine, is unaffected by ivermedin. Ivermedin does not readily penetrate the central nervous system of mammals where GABA functions as a neurotransmitter.

Sarety
Studies conducted in the U.S.A. have demonstrated the safety margin for ivermectin. Based on plasma levels, the topically applied formulation is expected to be at least as well tolerated by breeding animals as is the subcutaneous formulation which had no effect on breeding performance.

WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

WARNING! NOT FOR USE IN HUMANS.

This product should not be applied to self or others because it may be irritating to human skin and eyes and absorbed through the skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt and rubber gloves. If accidental skin contact occurs, wash immediately with soap and water. If accidental eye exposure occurs, flush eyes immediately with water and seek medical attention. medical attention.

Keep this and all drugs out of the reach of children.

WARNING! FLAMMABLE!

KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME,
AND OTHER SOURCES OF IGNITION.

PRECAUTIONS

Store away from excessive heat (104°F/40°C) and protect from light.

Use only in well-ventilated areas or outdoors.

Close container tightly when not in use.

Cattle should not be treated when hair or hide is wet since reduced efficacy may be experienced.

Do not use when rain is expected to wet cattle within six hours after treatment.

This product is for application to skin surface only. Do not give orally or parenterally.

Cloudiness in the formulation may occur when IVOMEC® (ivermectin) Pour-On is stored at temperatures below 32°F. Allowing to warm at room temperature will restore the normal appearance without affecting efficacy.

Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or adherent materials, e.g., caked mud or manure.

hermectin has been associated with adverse reactions in sensitive dogs; therefore, IVOMEC Pour-On is not recommended for use in species other than cattle.

When to Treat Cattle with Grubs
IVOMEC Pour-On effectively controls all stages of cattle
grubs. However, proper timing of treatment is important.
For the most effective results, cattle should be treated as
soon as possible after the end of the heel fly (warble fly)
season. While this is not peculiar to ivermectin, destruction season. While this is not peculiar to vermectin, destruction of Hypoderma larvae (cattle grubs) at the period when these grubs are in vital areas may cause undesirable host-parasite reactions. Killing Hypoderma lineatum when it is in the esophageal tissues may cause bloat; killing H. bovis when it is in the vertebral canal may cause staggering or paralysis. Cattle should be treated either before or after these stages of grub development.

Cattle treated with IVOMEC Pour-On at the end of the fly season may be re-treated with IVOMEC during the winter without danger of grub-related reactions. For further information and advice on a planned parasite control program, consult your veterinarian.

Environmental Safety

Studies indicate that when ivermectin comes in contact with the soil, it readily and tightly binds to the soil and becomes inactive over time. Free ivermectin may adversely affect fish or certain water-borne organisms on versely affect rish of certain water-borne organisms of which they feed. Do not permit cattle to enter takes, streams or ponds for at least six hours after treatment. Do not contaminate water by direct application or by the improper disposal of drug containers. Dispose of containers in an approved landfill or by incineration.

Package Information IVOMEC Pour-On is available in an 8.5 fl oz/250 mL bottle with a squeeze-measure-pour system (Product 41309A), a 33.8 fl oz/1 L bottle with a squeeze-measure-pour system (Product 41310A), or in an 84.5 fl oz/2.5 L collapsible pack (Product 41311A), and a 169 oz/5 L collapsible pack (Product 41350A) intended for use with appropriate systems of decige or intended automatic dosing equipment.



Merck & Co., Inc. Rahway, New Jersey 07065-0912, U.S.A.

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Ivonec (ivermectin)

pour-on for cattle

Contains 5 mg ivermectin/mL

Parasiticide

Kills:
Roundworms
(including Brown Stomach Worm)
Lungworms
Grubs
Sucking Lice
Biting Lice
Mange Miles .

WARNING! NOT FOR USE IN HUMANS.

Merck AgVet Division Merck & Co., Inc. Rahway, New Jersey 07065-0912, U.S.A.

Product 41310A

33.8 fi oz (1.06 qt) (1L)



WOMEC (vermectin) BOUK-ON for cattle

Contains 5 mg ivermectin/mL

Parasiticide

Kills:
Roundworms
(including
Brown Stomach Worm)
Lungworms
Grubs
Sticking Lice
Lot
Ling Lice
Mange Mites
Horn Flies

Merck AgVet Division
Merck & Co., Inc.
Rahway, N.J., 07065-0912, U.S.A.

Product 41309A

8793701

8.5 fl oz (250 mL)

WARNING! NOT FOR USE IN HUMANS

Lot No & Exp Date♥

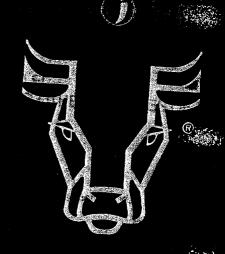
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(ivermectin)

OUF of cattle

Contains 5 mg ivermectin/mL



Parasiticide

Kills:

Horn Flies

Roundworms (including Brown Stomach Worm) Lungworms Grubs Sucking Lice Biting Lice Mange Mites



Merck & Co., Inc. Rahway, New Jersey 07065-0912, U.S.A.

Product 41350A

8865900

169 fl. 02 (5L)

Dicvelegnation for assistance in the diagnosis; treatment and control of parasitism.

natment and control of gastrointestinal roundworms (including inhibited *Osterlagia* por Limbs apoin flies, sucking and biting lice, and sarcoptic mange miles in cattle on insert for complete indications and use directions

ded Dose: a mL per 22 lb of body weight:

Ganle must not be treated within 48 days of slaughter for human consumption.

e.a withdrawal time in milk has not been established, do not use in temale dairy tte of breeding age.

WARNING! NOT FOR USE IN HUMANS

pour should not be applied to self or others because it may be irritating to human skin and solved through the skin. To minimize accidental skin contact, the user should wear a long-election pubber gloves: If accidental skin contact occurs, wash immediately with soap and water. rial eye exposure occurs, flush eyes immediately with water and seek medical attention

his and all drugs out of the reach of children

WARNINGI-FLAMMABLE

REPAWAY FROM HEAT, SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION. -1.UTONS

way from excessive heat (104°F/40°C) and protect from light.

(ii) in Well-ventilated areas or outdoors

container tightry when not in use:

100d not be treated when hair or hide is wet since reduced efficacy may be experienced.

** USE When rain is expected to wet cattle within six hours after treatment

(i.e. 10) application to skin surface only. Do not give orally of parenterally

Less in the formulation may occur when IVOMEC (ivermectin) Pour On is stored at temperatures to complete the formulation may occur when IVOMEC (ivermectin) Pour On is stored at temperatures to complete the point of the store that the point of the store that the point of the store that the store the store that the store

Contaminate water by direct application or by the improper disposal of drug containers. Disposal in an approved landfill or by incineration.

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0 1002 (2.64 qt) (2.5L)

08-2001



(ivermectin)

DOUT Of for cattle

Contains 5 mg ivermectin/mL



Kills:

Roundworms
(including Brown Stomach Worm)
Lungworms
Grubs
Sucking Lice
Biting Lice
Mange Mites
Horn Flies

Product 41311A

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MERCK
Agver Division

Merck & Co., Inc. Rahway, New Jersey, 07065-0912, U

84.5 fl oz (2.64 qt) (2.5 L)

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your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

TIONS: treatment and control of gastrointestinal roundworms (including inhibited *Ostertagia ostertagi*), lungworms, grubs sucking and biting fice, and sarcoptic mange mites in cattle.

cage insert for complete indications and use directions

nended Dose: 1 mL per 22 lb of body weight

WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

WARNING! NOT FOR USE IN HUMANS."

Det should not be applied to self or others because it may be inflating to human skin and eyes and absorbed it skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt and rubber gloves. It skin contact occurs, wash immediately with soap and water. If accidental eye exposure occurs, flush eyes by with water and seek medical attention.

this and all drugs out of the reach of children.

WARNING! FLAMMABLE!

LEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION

ECAUTIONS:

away from excessive heat (104°F/40°C) and protect from light.

n) in well-ventilated areas or outdoors.

container tightly when not in use.

circuld not be treated when hair or hide is wet since reduced efficacy may be experienced.

. Use when rain is expected to wet cattle within six hours after treatment.

product is for application to skin surface only. Do not give orally or parenterally.

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IVERMECTIN POUR-ON For cattle

Contains 5 mg ivermectin/mL **Parasiticide**

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

Ivermectin Pour-On delivers internal and external parasite control in one convenient low-volume application. Discovered and developed by scientists from Merck Research Laboratorie Ivermectin Pour-On contains ivermectin, a unique chemical entity.

Ivermectin Pour-On applied at the recommended dose level of 500 mcg/kg is indicated for the effective control of these parasites

Gastrointestinal Roundworms

Ostertagia ostertagi (including inhibited stage)	(adults and L4)
Haemonchus placel	(adults and L4)
Trichostrongylus axei	(adults and L4)
T. colubriformis	(adults and L4)
Cooperia spp.	(adults and L4)
Strongyloides papillosus	(adults)
Oesophagostomum radiatum	(adults and L4)
Trichuris spp.	(adults)

Lungworms

Dictyocaulus viviparus (adults and L4) **Cattle Grubs** (parasitic stages)

Hypoderma bovis

H. Lineatum

Mites

Sarcoptes scabiei var. bovis

Linognathus vituli Haematopinus eurystemus Damalinia bovis Solenopotes capillatus

Horn Flies

Haematobia irritans

Persistent Activity

Ivermectin Pour-On has been proved to effectively control infections and to protect cattle from reinfection with Ostertagia ostertagi, Oesophagostomum radiatum, Haemonchus placei, Trichostrongylus axei, Cooperia punctata and Cooperia oncophora for 14 days after treatment.

Treatment of Cattle for Horn Flies

Ivermectin Pour-On controls horn flies (Haematobia irritans) for up to 28 days after dosing. For best results Ivermectin Pour-On should be part of a parasite control program for both internal and

external parasites based on the epidemiology of these parasites. Consult your veterinarian or an entomologist for the most effective timing of applications.

Dosage
The dose rate is 1 mL for each 22 lb of body weight. The formulation should be applied along the topline in a narrow strip extending from the withers to the tailhead.

Administration

Squeeze-Measure-Pour System (8.5 fl. oz/250 mL Bottle with 25 ml. Measuring Cup).

Measure the amount of solution to be used at the dose rate of 1 mL for each 22 lb of body weight into the measuring cup. When body weight is between markings use the higher setting.

Tilt the measuring cup to deliver the dose

Squeeze-Measure-Pour System (33.8 fl. oz/1 L Bottle with 25 mL Measuring Cup).

Measure the amount of solution to be used, at the dose rate of 1 mL for each 22 lbs of body weight, into the measuring cup. When body weight is between markings, use the higher setting.

Tilt the measuring cup to deliver the dose.

One Gallon Bottle and Collapsible Pack (84.5 fl oz/ 2.5 L Pack and 169 fl oz/5 L Pack)

Connect the applicator gun to the collapsible pack as follows: Attach the open end of the draw-off tubing to the dosing equipment. Replace the shipping cap with the draw-off cap and tighten down. Attach draw-off tubing to the draw-off cap.

Gently prime the applicator gun, checking for leaks.

Follow the manufacturer's directions for adjusting the dose.

When the interval between uses of the applicator gun is expected to exceed 12 hours, disconnect the gun and draw-off tubing from the product container and empty the product from the gun and tubing back into the product container. To prevent removal of special lubricants form the Protector Drench Gun, the gun and tubing must not be washed.

Mode of Action

Ivermectin as a member of the avermectin family kills certain parasitic roundworms and ectoparasites, such as mites, lice, horn flies and other insects. Its action is unique to the avermectin class of antiparasitic agents. This action involves a chemical that serves as a signal from one nerve cell to another, or from a nerve cell to a muscle cell. This chemical, a neurotransmitter, is called gamma-amino-butyric acid or GABA.

In roundworms, ivermectin stimulates the release of GABA from nerve endings and enhances binding of GABA to special receptors at nerve junctions, thus interrupting nerve impulses thereby paralyzing and killing the parasite.

The enhancement of the GABA effect in arthropods such as mites, lice and horn flies resembles that in roundworms except that nerve impulses are interrupted between the nerve ending and the muscle cell. Again, this leads to paralysis and death.

Ivermectin has no measurable effect against flukes or tapeworms, presumably because they do not have GABA as a nerve impulse transmitter.

The principle peripheral neurotransmitter in mammals, acetylcholine, is unaffected by ivermectin, Ivermectin does not readily penetrate the central nervous system of mammals where GABA functions as a neurotransmitter.

Safety

Studies conducted in the USA have demonstrated the safety margin for ivermectin. Based on plasma levels, the topically applied formulation is exposted to be at least as well tolerated by breeding animals as is the subcutaneous formulation which had no effect on breeding performance.



WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

WARNING! NOT FOR USE IN HUMANS.

This product should not be applied to self or others because it may be irritating to human skin and eyes and absorbed through the skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt and rubber gloves. If accidental skin contact occurs, wash immediately with soap and water. If accidental eye exposure occurs, flush eyes immediately with water and seek medical attention.

Keep this and all drugs out of the reach of children.

WARNING! FLAMMABLE!
KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME AND
OTHER SOURCES OF IGNITION.

PRECAUTIONS

Store away from excessive heat (104° F/ 40° C) and protect from light.

- · Use only in well-ventilated areas or outdoors.
- Close container tightly when not in use.
- Cattle should not be treated when hair or hide is wet since reduced efficacy may be experienced.
- Do not use when rain is expected to wet cattle within six hours after treatment.
- This product is for application to skin surface only. Do not give orally or parenterally.
 Cloudiness in the formulation may occur when ivermectin Pour-
- Cloudiness in the formulation may occur when ivermectin Pour On is stored at temperatures below 32° F. Allowing to warm at

room temperature will restore the normal appearance without affecting efficacy.

- Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or adherent materials, e.g. caked mud or manure.
- Ivermectin has been associated with adverse reactions in sensitive dogs; therefore, ivermectin Pour-On is not recommended for use in species other than cattle.

When to Treat Cattle with Grubs

Ivermectin Pour-On effectively controls all stages of cattle grubs. However, proper timing of treatment is important. For the most effective results, cattle should be treated as soon as possible after the end of the heel fly (warble fly) season. While this is not peculiar to ivermectin, destruction of Hypoderma larvae (cattle grubs) at the period when these grubs are in vital areas may cause undesirable host-parasite reactions. Killing Hypoderma lineatum when it is in esophageal tissues may cause bloat; killing H. bov/s when it is in the vertebral canal may cause staggering or paralysis. Cattle should be treated either before or after these stages of grub development.

Cattle treated with ivermectin Pour-On at the end of the fly season may be re-treated with ivermectin during the winter without danger of grub-related reactions. For further information and advice on a planned parasite control program, consult your veterinarian.

Environmental Safety

Studies indicate that when ivermectin comes in contact with the soil, it readily and tightly binds to the soil and becomes inactive over time. Free ivermectin may adversely affect fish or certain waterborne organisms on which they feed. Do not permit cattle to enter lakes, streams or ponds for at least six hours after treatment. Do not contaminate water by direct application or by the improper disposal of drug containers. Dispose of containers in an approved landfill or by incineration.

Package Information

Ivermectin Pour-On is available in an 8.5 fl oz./ 250 mL bottle, a one gallon/3.785 L container, a 33.8 fl oz/1 L bottle, an 84.5 fl oz/ 2.5 L collapsible pack and a 169 fl oz/5 L collapsible pack intended for use with appropriate automatic dosing equipment.

Med-Pharmex Inc. Pomona, CA 91767, USA November 2000. In roundworms, ivermectin stimulates the release of GABA from nerve endings and enhances binding of GABA to special receptors at nerve junctions, thus interrupting nerve impulses thereby paralyzing and killing the parasite.

The enhancement of the GABA effect in arthropods such as mites, lice and horn flies resembles that in roundworms except that nerve impulses are interrupted between the nerve ending and the muscle cell. Again, this leads to paralysis and death

Ivermectin has no measurable effect against flukes or tapeworms, presumably because they do not have GABA as a nerve impulse transmitter.

The principle peripheral neurotransmitter in mammals, acetylcholine, is unaffected by ivermectin. Ivermectin does not readily penetrate the central nervous system of mammals where GABA functions as a neurotransmitter.

Safety

Studies conducted in the USA have demonstrated the safety margin for ivermectin. Based on plasma levels, the topically applied formulation is expected to be at least as well tolerated by breeding animals as is the subcutaneous formulation which had no effect on breeding performance.



WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

WARNING! NOT FOR USE IN HUMANS.

This product should not be applied to self or others because it may be irritating to human skin and eyes and absorbed through the skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt and rubber gloves. If accidental skin contact occurs, wash immediately with soap and water. If accidental eye exposure occurs, flush eyes immediately with water and seek medical attention.

Keep this and all drugs out of the reach of children.

WARNING! FLAMMABLE! KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME AND OTHER SOURCES OF IGNITION.

PRECAUTIONS

Store away from excessive heat (104° F/ 40° C) and protect from light.

- · Use only in well-ventilated areas or outdoors.
- Close container tightly when not in use.
 Cattle should not be treated when hair or hide is wet since reduced efficacy may be experienced.

 • Do not use when rain is expected to wet cattle within six hours
- . This product is for application to skin surface only. Do not give
- orally or parenterally. Cloudiness in the formulation may occur when ivermectin Pour-
- On is stored at temperatures below 32° F. Allowing to warm at

room temperature will restore the normal appearance without affecting efficacy.

- · Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or adherent materials, e.g. caked mud or manure.
- Ivermectin has been associated with adverse reactions in sensitive dogs; therefore, ivermectin Pour-On is not recommended for use in species other than cattle,

When to Treat Cattle with Grubs

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Cattle treated with ivermectin Pour-On at the end of the fly season may be re-treated with ivermectin during the winter without danger of grub-related reactions. For further information and advice on a planned parasite control program, consult your veterinarian.

Environmental Safety

Studies indicate that when ivermectin comes in contact with the soil, it readily and tightly binds to the soil and becomes inactive over time. Free ivermectin may adversely affect fish or certain waterborne organisms on which they feed. Do not permit cattle to enter lakes, streams or ponds for at least six hours after treatment. Do not contaminate water by direct application or by the improper disposal of drug containers. Dispose of containers in an approved landfill or by incineration.

Package Information

Ivermectin Pour-On is available in an 8.5 fl oz./ 250 mL bottle, a one gallon/3.785 L container, a 33.8 fl oz/1 L bottle, an 84.5 fl oz/ 2.5 L collapsible pack and a 169 fl oz/5 L collapsible pack intended for use with appropriate automatic dosing equipment.

Med-Pharmex Inc. Pomona, CA 91767, USA November 2000.

ANADA 200-299, Approved by FDA.

IVERMECTIN POUR-ON For cattle

Contains 5 mg ivermectin/mL Parasiticide

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

Introduction:

Ivermectin Pour-On delivers internal and external parasite control in one convenient low-volume application. Discovered and developed by scientists from Merck Research Laboratories, Ivermectin Pour-On contains ivermectin, a unique chemical entity.

Indications

Ivermectin Pour-On applied at the recommended dose level of 500 mcg/kg is indicated for the effective control of these parasites

Gastrointestinal Roundworms

Ostertagia ostertagi (including inhibited stage)	(adults and L4)
Haemonchus placei	(adults and L4)
Trichostrongylus axei	(adults and L4)
T. colubriformis	(adults and L4)
Cooperia spp.	(adults and L4)
Strongyloides papillosus	(adults)
Oesophagostomum radiatum	(adults and L4)
Trichuris spp.	(adults)

Lungworms

Dictyocaulus viviparus (adults and L4)

Cattle Grubs Hypoderma bovis H. Lineatum

(parasitic stages)

Mites

Sarcoptes scabiei var. bovis

Lice

Linognathus vituli Haematopinus eurystemus Damalinia bovis Solenopotes capillatus

Horn Flies

Haemotobia irritans

Persistent Activity

Ivermectin Pour-On has been proved to effectively control infections and to protect cattle from reinfection with Ostertagia ostertagi, Oesophagostomum radiatum, Haemonchus placei, Trichostrongylus axei, Cooperia punctata and Cooperia oncophora for 14 days after treatment.

Treatment of Cattle for Horn Flies

Ivermectin Pour-On controls hom flies (Haemotobia irritans) for up to 28 days after dosing. For best results Ivermectin Pour-On should be part of a parasite control program for both internal and

external parasites based on the epidemiology of these parasites. Consult your veterinarian or an entomologist for the most effective timing of applications.

Dosag

The dose rate is 1 mL for each 22 lb of body weight. The formulation should be applied along the topline in a narrow strip extending from the withers to the tailhead.

Administration

Squeeze-Measure-Pour System (8.5 fl. oz/250 ml. Bottle with 25 ml. Measuring Cup).

Measure the amount of solution to be used at the dose rate of 1 mL for each 22 to of body weight into the measuring cup. When body weight is between markings use the higher setting.

Tilt the measuring cup to deliver the dose.

Squeeze-Measure-Pour System (33.8 fl. oz/1 L Bottle with 25 mL Measuring Cup).

Measure the amount of solution to be used, at the dose rate of 1 mt. for each 22 lbs of body weight, into the measuring cup. When body weight is between markings, use the higher setting.

Tilt the measuring cup to deliver the dose.

One Gallon Bottle and Collapsible Pack (84.5 fl oz/ 2.5 L Pack and 169 fl oz/5 L Pack)

Connect the applicator gun to the collapsible pack as follows: Attach the open end of the draw-off tubing to the dosing equipment. Replace the shipping cap with the draw-off cap and tighten down. Attach draw-off tubing to the draw-off cap.

Gently prime the applicator gun, checking for leaks.

Follow the manufacturer's directions for adjusting the dose.

When the interval between uses of the applicator gun is expected to exceed 12 hours, disconnect the gun and draw-off tubing from the product container and empty the product from the gun and tubing back into the product container. To prevent removal of special fubricants form the Protector Drench Gun, the gun and tubing must not be washed.

Mode of Action

Ivermectin as a member of the avermectin family kills certain parasitic roundworms and ectoparasites, such as mites, lice, horn flies and other insects. Its action is unique to the avermectin class of antiparasitic agents. This action involves a chemical that serves as a signal from one nerve cell to another, or from a nerve cell to a muscle cell. This chemical, a neurotransmitter, is called gamma-amino-butyric acid or GABA.

In roundworms, ivermectin stimulates the release of GABA from nerve endings and enhances binding of GABA to special receptors at nerve junctions, thus interrupting nerve impulses thereby paralyzing and killing the parasite.

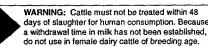
The enhancement of the GABA effect in arthropods such as mites, lice and horn flies resembles that in roundworms except that nerve impulses are interrupted between the nerve ending and the muscle cell. Again, this leads to paralysis and death.

Ivermectin has no measurable effect against flukes or tapeworms, presumably because they do not have GABA as a nerve impulse transmitter.

The principle peripheral neurotransmitter in mammals, acetylcholine, is unaffected by ivermectin. Ivermectin does not readily penetrate the central nervous system of mammals where GABA functions as a neurotransmitter.

Safety

Studies conducted in the USA have demonstrated the safety margin for ivermectin. Based on plasma levels, the topically applied formulation is expected to be at least as well tolerated by breeding animals as is the subcutaneous formulation which had no effect on breeding performance.



WARNING! NOT FOR USE IN HUMANS.

This product should not be applied to self or others because it may be irritating to human skin and eyes and absorbed through the skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt and rubber gloves. If accidental skin contact occurs, wash immediately with soap and water. If accidental eye exposure occurs, flush eyes immediately with water and seek medical attention.

Keep this and all drugs out of the reach of children.

WARNING! FLAMMABLE! KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME AND OTHER SOURCES OF IGNITION.

PRECAUTIONS

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When to Treat Cattle with Grubs

Ivermectin Pour-On effectively controls all stages of cattle grubs. However, proper timing of treatment is important. For the most effective results, cattle should be treated as soon as possible after the end of the heel fly (warble fly) season. While this is not peculiar to ivermectin, destruction of *Hypoderma* larvae (cattle grubs) at the period when these grubs are in vital areas may cause undesirable host-parasite reactions. Killing Hypoderma lineatum when it is in esophageal tissues may cause bloat; killing H. bovis when it is in the vertebral canal may cause staggering or paralysis. Cattle should be treated either before or after these stages of grub development.

Cattle treated with ivermectin Pour-On at the end of the fiv season may be re-treated with ivermectin during the winter without danger of grub-related reactions. For further information and advice on a planned parasite control program, consult your veterinarian.

Environmental Safety

Studies indicate that when ivermectin comes in contact with the soil, it readily and tightly binds to the soil and becomes inactive over time. Free ivermectin may adversely affect fish or certain waterborne organisms on which they feed. Do not permit cattle to enter lakes, streams or ponds for at least six hours after treatment. Do not contaminate water by direct application or by the improper disposal of drug containers. Dispose of containers in an approved landfill or by incineration.

Package Information

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Med-Pharmex Inc. Pomona, CA 91767, USA November 2000.

ANADA 200-299, Approved by FDA.

IVERMECTIN POUR-ON For cattle

Contains 5 mg ivermectin/mL Parasiticide

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(parasitic stages)

Introduction

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Ivermectin Pour-On applied at the recommended dose level of 500 mcg/kg is indicated for the effective control of these parasites.

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Hypoderma bovi: H. Lineatum

Mites

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Horn Flies

Haemotobia irritans

Persistent Activity

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external parasites based on the epidemiology of these parasites. Consult your veterinarian or an entomologist for the most effective timing of applications.

Dosage

The dose rate is 1 mL for each 22 lb of body weight. The formulation should be applied along the topline in a narrow strip extending from the withers to the tailhead.

Administration

Squeeze-Measure-Pour System (8.5 fl. oz/250 mL Bottle with 25 mL Measuring Cup).

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Titt the measuring cup to deliver the dose.

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Safety

Studies conducted in the USA have demonstrated the safety margin for ivermectin. Based on plasma levels, the topically applied formulation is expected to be at least as well tolerated by breeding animals as is the subcutaneous formulation which had no effect on breeding performance.



WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

WARNING! NOT FOR USE IN HUMANS.

This product should not be applied to self or others because it may be irritating to human skin and eyes and absorbed through the skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt and rubber gloves. If accidental skin contact occurs, wash immediately with soap and water. If accidental eye exposure occurs, flush eyes immediately with water and seek medical attention.

Keep this and all drugs out of the reach of children.

WARNING! FLAMMABLE! KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME AND OTHER SOURCES OF IGNITION.

PRECAUTIONS

Store away from excessive heat (104° F/ 40° C) and protect from light.

- · Use only in well-ventilated areas or outdoors.
- Close container tightly when not in use.
- Cattle should not be treated when hair or hide is wet since reduced efficacy may be experienced.
- Do not use when rain is expected to wet cattle within six hours after treatment.
- This product is for application to skin surface only. Do not give orally or parenterally.
- Cloudiness in the formulation may occur when ivermectin Pour-On is stored at temperatures below 32° F. Allowing to warm at

room temperature will restore the normal appearance without affecting efficacy.

- Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or adherent materials, e.g. caked mud or manure.
- Ivermectin has been associated with adverse reactions in sensitive dogs; therefore, ivermectin Pour-On is not recommended for use in species other than cattle.

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Environmental Safety

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Package Information

Ivermectin Pour-On is available in an 8.5 fl oz./ 250 mL bottle, a one gallon/3.785 L container, a 33.8 fl oz/1 L bottle, an 84.5 fl oz/ 2.5 L collapsible pack and a 169 fl oz/5 L collapsible pack intended for use with appropriate automatic dosing equipment.

Med-Pharmex Inc. Pomona, CA 91767, USA November 2000.

See package insert for complete indications and use directions.

Recommended Dose:

1 mL per 22 lb of body weight.

WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

This product should not be applied to self or others because it may be irritating to human skin and eyes and absorbed through the skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt and rubber gloves. If accidental skin contact occurs, wash immediately with soap and water. If accidental eye exposure occurs, flush eyes immediately with water and seek medical attention.

Keep this and all drugs out of the reach of children.

PRECAUTIONS:

Store away from excessive heat (104°F/40°C) and protect from light.

IVER-ON™

IVERMECTIN POUR-ON for cattle

Contains: 5 mg ivermectin/mL

INTERNAL and EXTERNAL PARASITICIDE for CATTLE

Kills:

Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies.

WARNING: Flammable!
Keep Away From Heat, Sparks, Open
Flame and Other Sources of Ignition.

WARNING: Not For Use In Humans.

Net Contents: 169 fl oz (5 Liters)

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

MED-PHARMEX, INC. Pomona, CA 91767

ANADA # 200-299 Approved by FDA

Use only in well-ventilated areas or outdoors.

Close container tightly when not in use. Cattle should not be treated when hair or hide is wet since reduced efficacy may be experienced.

Do not use when rain is expected to wet cattle within six hours after treatment. This product is for application to skin surface only. Do not give orally or parenterally.

Cloudiness in the formulation may occur when IVER-ON is stored at temperatures below 32° F. Allowing to warm at room temperature will restore the normal appearance without affecting efficacy. Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or adherent materials, e.g. caked mud or manure. Ivermectin has been associated with adverse reactions in sensitive

dogs: therefore, IVER-ON is not recommended for use in species other than cattle.

Do not contaminate water by direct application or by the

improper disposal of drug containers. Dispose of containers in an appropriate landfill or by

incineration.

Lot # / Exp. Date

See package insert for complete indications and use directions.

Recommended Dose:

1 mL per 22 lb of body weight.

WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

This product should not be applied to self or others because it may be irritating to human skin and eyes and absorbed through the skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt and rubber gloves. If accidental skin contact occurs, wash immediately with soap and water. If accidental eye exposure occurs, flush eyes immediately with water and seek medical attention.

Keep this and all drugs out of the reach of children.

PRECAUTIONS:

Store away from excessive heat (104°F/40°C) and protect from light.

IVER-ON™

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Contains: 5 mg ivermectin/mL

INTERNAL and EXTERNAL PARASITICIDE for CATTLE

Kills:

Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies.

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Do not contaminate water by direct application or by the improper disposal of drug containers.

Dispose of containers in an appropriate landfill or by incineration.

Lot # / Exp. Date

See package insert for complete indications and use directions.

Recommended Dose:

1 mL per 22 lb of body weight.

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Keep this and all drugs out of the reach of children.

PRECAUTIONS:

Store away from excessive heat (104°F/40°C) and protect from light.

IVER-ONTM

IVERMECTIN POUR-ON for cattle

Contains: 5 mg ivermectin/mL

INTERNAL and EXTERNAL PARASITICIDE for CATTLE

Kills:

Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies.

WARNING: Flammable! Keep Away From Heat, Sparks, Open Flame and Other Sources of Ignition.

WARNING: Not For Use In Humans.

Net Contents: 169 fl oz (5 Liters)

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MED-PHARMEX, INC. Pomona, CA 91767

ANADA # 200-299 Approved by FDA

Use only in well-ventilated areas or outdoors.

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Do not contaminate water by direct application or by the improper disposal of drug containers.

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1 mL per 22 lb of body weight

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WARNING: Flammable! Keep Away From Heat, Sparks, Open Flame and Other Sources of Ignition.

WARNING: Not For Use In Humans.

Net Contents: One Gallon (3.785 L)

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

MED-PHARMEX, INC. Pomona, CA 91767

ANADA # 200-299 Approved by FDA

Use only in well-ventilated areas or outdoors.

Close container tightly when not in use.

Cattle should not be treated when hair or hide is wet since reduced efficacy may be experienced.

Do not use when rain is expected to wet cattle within six hours after treatment.

This product is for application to skin surface only. Do not give orally or parenterally.

Cloudiness in the formulation may occur when IVER-ON is stored at temperatures below 32° F. Allowing to warm at room temperature will restore the normal appearance without affecting efficacy.

Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or adherent materials, e.g. caked mud or manure.

Ivermectin has been associated with adverse reactions in sensitive dogs; therefore, IVER-ON is not recommended for use in species other than cattle.

Do not contaminate water by direct application or by the improper disposal of drug containers.

Dispose of containers in an appropriate landfill or by incineration.

ot # / Exp. Date

See package insert for complete indications and use directions.

Recommended Dose:

1 mL per 22 lb of body weight.

WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

This product should not be applied to self or others because it may be irritating to human skin and eyes and absorbed through the skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt and rubber gloves. If accidental skin contact occurs, wash immediately with soap and water. If accidental eye exposure occurs, flush eyes immediately with water and seek medical attention.

Keep this and all drugs out of the reach of children.

PRECAUTIONS:

Store away from excessive heat (104°F/40°C) and protect from light.

IVER-ONTM

IVERMECTIN POUR-ON for cattle

Contains: 5 mg ivermectin/mL

INTERNAL and EXTERNAL PARASITICIDE for CATTLE

Kills:

Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies.

WARNING: Flammable! Keep Away From Heat, Sparks, Open Flame and Other Sources of Ignition.

WARNING: Not For Use In Humans.

Net Contents: One Gallon (3.785 L)

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

MED-PHARMEX, INC.
Pomona, CA 91767

ANADA # 200-299 Approved by FDA

Use only in well-ventilated areas or outdoors.

Close container tightly when not in use.

Cattle should not be treated when hair or hide is wet since reduced efficacy may be experienced.

Do not use when rain is expected to wet cattle within six hours after treatment.

This product is for application to skin surface only. Do not give orally or parenterally.

Cloudiness in the formulation may occur when IVER-ON is stored at temperatures below 32° F. Allowing to warm at room temperature will restore the normal appearance without affecting efficacy.

Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or adherent materials, e.g. caked mud or manure.

Ivermectin has been associated with adverse reactions in sensitive dogs; therefore, IVER-ON is not recommended for use in species other than cattle.

Do not contaminate water by direct application or by the improper disposal of drug containers.

Dispose of containers in an appropriate landfill or by incineration.

Indications: For the treatment and control of gastrointestinal roundworms (including inhibited *Ostertagia ostertagii*), lungworms, grubs, horn flies, sucking and biting lice, and sarcoptic mange mites in cattle.

See package insert for complete indications and use directions.

Recommended Dose:

1 mL per 22 lb of body weight.

WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

This product should not be applied to self or others because it may be irritating to human skin and eyes and absorbed through the skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt and rubber gloves. If accidental skin contact occurs, wash immediately with soap and water. If accidental eye exposure occurs, flush eyes immediately with water and seek medical attention.

Keep this and all drugs out of the reach of children.

PRECAUTIONS:

Store away from excessive heat (104°F/40°C) and protect from light.

IVER-ON™

IVERMECTIN POUR-ON for cattle

Contains: 5 mg ivermectin/mL

INTERNAL and EXTERNAL PARASITICIDE for CATTLE

Kills

Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies.

WARNING: Flammable! Keep Away From Heat, Sparks, Open Flame and Other Sources of Ignition.

WARNING: Not For Use In Humans.

Net Contents: One Gallon (3.785 L)

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

MED-PHARMEX, INC. Pomona, CA 91767

ANADA # 200-299 Approved by FDA

Use only in well-ventilated areas or outdoors.

Close container tightly when not in use.

Cattle should not be treated when hair or hide is wet since reduced efficacy may be experienced.

Do not use when rain is expected to wet cattle within six hours after treatment.

This product is for application to skin surface only. Do not give orally or parenterally.

Cloudiness in the formulation may occur when IVER-ON is stored at temperatures below 32° F. Allowing to warm at room temperature will restore the normal appearance without affecting efficacy.

Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or adherent materials, e.g. caked mud or manure.

Ivermectin has been associated with adverse reactions in sensitive dogs; therefore, IVER-ON is not recommended for use in species other than cattle.

Do not contaminate water by direct application or by the improper disposal of drug containers.

Dispose of containers in an appropriate landfill or by incineration.

ot # / Exp. Dat

See package insert for complete indications and use directions.

Recommended Dose:

1 mL per 22 lb of body weight.

WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

This product should not be applied to self or others because it may be irritating to human skin and eyes and absorbed through the skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt and rubber gloves. If accidental skin contact occurs, wash immediately with soap and water. If accidental eye exposure occurs, flush eyes immediately with water and seek medical attention.

Keep this and all drugs out of the reach of children.

PRECAUTIONS:

Store away from excessive heat (104°F/40°C) and protect from light.

IVER-ON™

IVERMECTIN POUR-ON for cattle

Contains: 5 mg ivermectin/mL

INTERNAL and EXTERNAL PARASITICIDE for CATTLE

Kills:

Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies.

WARNING: Flammable!
Keep Away From Heat, Sparks, Open
Flame and Other Sources of Ignition.

WARNING: Not For Use In Humans.

Net Contents: 84.5 fl oz (2.5 Liters)

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

MED-PHARMEX, INC. Pomona, CA 91767

ANADA # 200-299 Approved by FDA

Use only in well-ventilated areas or outdoors.

Close container tightly when not in use.

Cattle should not be treated when hair or hide is wet since reduced efficacy may be experienced.

Do not use when rain is expected to wet cattle within six hours after treatment.

This product is for application to skin surface only. Do not give orally or parenterally.

Cloudiness in the formulation may occur when IVER-ON is stored at temperatures below 32° F. Allowing to warm at room temperature will restore the normal appearance without affecting efficacy.

Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or adherent materials, e.g. caked mud or manure.

Ivermectin has been associated with adverse reactions in sensitive dogs; therefore, IVER-ON is not recommended for use in species other than cattle.

Do not contaminate water by direct application or by the improper disposal of drug containers.

Dispose of containers in an appropriate landfill or by incineration.

ot # / Exp. Date

See package insert for complete indications and use directions.

Recommended Dose:

1 mL per 22 lb of body weight.

WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

This product should not be applied to self or others because it may be irritating to human skin and eyes and absorbed through the skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt and rubber gloves. If accidental skin contact occurs, wash immediately with soap and water. If accidental eye exposure occurs, flush eyes immediately with water and seek medical attention.

Keep this and all drugs out of the reach of children.

PRECAUTIONS:

Store away from excessive heat (104°F/40°C) and protect from light.

IVER-ON™

IVERMECTIN POUR-ON for cattle

Contains: 5 mg ivermectin/mL

INTERNAL and EXTERNAL PARASITICIDE for CATTLE

Kills:

Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies.

WARNING: Flammable! Keep Away From Heat, Sparks, Open Flame and Other Sources of Ignition.

WARNING: Not For Use In Humans.

Net Contents: 84.5 fl oz (2.5 Liters)

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

MED-PHARMEX, INC.
Pomona, CA 91767

ANADA # 200-299 Approved by FDA

Use only in well-ventilated areas or outdoors.

Close container tightly when not in use.

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Do not use when rain is expected to wet cattle within six hours after treatment.

This product is for application to skin surface only. Do not give orally or parenterally.

Cloudiness in the formulation may occur when IVER-ON is stored at temperatures below 32° F. Allowing to warm at room temperature will restore the normal appearance without affecting efficacy.

Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or adherent materials, e.g. caked mud or manure.

Ivermectin has been associated with adverse reactions in sensitive dogs; therefore, IVER-ON is not recommended for use in species other than cattle.

Do not contaminate water by direct application or by the improper disposal of drug containers.

Dispose of containers in an appropriate landfill or by incineration.

Indications: For the treatment and control of gastrointestinal roundworms (including inhibited Ostertagia ostertagi), lungworms, grubs, horn flies, sucking and biting lice, and sarcoptic mange mites in cattle.

See package insert for complete indications and use directions.

Recommended Dose:

1 mL per 22 lb of body weight.

WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

This product should not be applied to self or others because it may be irritating to human skin and eyes and absorbed through the skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt and rubber gloves. If accidental skin contact occurs, wash immediately with soap and water. If accidental eye exposure occurs, flush eyes immediately with water and seek medical attention.

Keep this and all drugs out of the reach of children.

PRECAUTIONS:

Store away from excessive heat (104°F/40°C) and protect from light.

IVER-ON™

IVERMECTIN POUR-ON for cattle

Contains: 5 mg ivermectin/mL

INTERNAL and EXTERNAL PARASITICIDE for CATTLE

Kills:

Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies.

WARNING: Flammable! Keep Away From Heat, Sparks, Open Flame and Other Sources of Ignition.

WARNING: Not For Use In Humans.

Net Contents: 84.5 fl oz (2.5 Liters)

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.



ANADA # 200-299 Approved by FDA

Use only in well-ventilated areas or outdoors.

Close container tightly when not in use.

Cattle should not be treated when hair or hide is wet since reduced efficacy may be experienced.

Do not use when rain is expected to wet cattle within six hours after treatment.

This product is for application to skin surface only. Do not give orally or parenterally.

Cloudiness in the formulation may occur when IVER-ON is stored at temperatures below 32° F. Allowing to warm at room temperature will restore the normal appearance without affecting efficacy.

Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or adherent materials, e.g. caked mud or manure.

Ivermectin has been associated with adverse reactions in sensitive dogs; therefore, IVER-ON is not recommended for use in species other than cattle.

Do not contaminate water by direct application or by the improper disposal of drug containers.

Dispose of containers in an appropriate landfill or by incineration.

Lot # / Exp. Date

INTERNAL and EXTERNAL PARASITICIDE for CATTLE

Kills:

Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies.

WARNING: Flammable! Keep Away From Heat, Sparks, Open Flame and Other Sources of Ignition.

WARNING: Not For Use In Humans.

Net Contents: 33.8 fl oz (1 Litex)

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

MED-PHARMEX, INC.
Pomona, CA 91767

ANADA # 200-299 Approved by FDA

Use only in well-ventilated areas or outdoors.

Close container tightly when not in use

Cattle should not be treated when hair or hide is wet since reduced efficacy may be experienced.

Do not use when rain is expected to wet cattle

This product is for application to skin surface only. Do not give orally or parenterally.

Cloudiness in the formulation may occur w IVER-ON is stored at temperatures below 32° F.
Allowing to warm at room temperature will restore the normal appearance without affecting efficacy.

Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or adherent materials, e.g. caked mud or manure.

Ivermectin has been associated with adverse reactions in sensitive dogs; therefore, IVER-DN is not recommended for use in species other than

Do not contaminate water by direct application or by the improper disposal of drug containers.

Dispose of containers in an appropriate landfill or

IVER-ON™ IVERMECTIN POUR-ON

for cattle Contains: 5 mg ivermectin/mL

INTERNAL and EXTERNAL **PARASITICIDE** for CATTLE

Kills:

Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies.

WARNING: Flammable! Keep Away From Heat, Sparks, Open Hame and Other Sources of Ignition.

WARNING: Not For Use in Humans

Net Contents: 33.8 fl oz (1 Liter)

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

MED-PHARMEX, INC. Pomona, CA 91767

ANADA # 200-299 Approved by FDA

Use only in well-ventilated areas or outdoors.

Close container tightly when not in use.

Cattle should not be treated when hair or hide is wet since reduced efficacy may be experienced.

Do not use when rain is expected to wet cattle

This product is for application to skin surface only. Do not give orally or parenterally.

Cloudiness in the formulation may occur when IVER ON is stored at temperatures below 32° E. Allowing to warm at room temperature will restore the normal appearance without affecting efficacy.

Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or adherent materials, e.g. caked mud or manure.

lvermectin has been associated with adverse reactions in sensitive dogs; therefore, IVER-ON is not recommended for use in species other than

Do not contaminate water by direct application or by the improper disposal of drug containers.

Dispose of containers in an appropriate landfill or

Indications: For the treatment and control of gastrointestinal roundworms (including inhibited Ostertagia astertagi), lungworms, grubs, horn flies, sucking and biting lice, and sarcoptic mange mites in cattle.

Indications: For the treatment and control of gastrointestinal roundworms (including

gass offices and roundwiss flictioning inhibited Ostertagia ostertagil, lungworms, grubs, horn flies, sucking and biting lice, and sarcoptic mange mites in cattle.

See package insert for complete indications

WARNING: Cardle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not

use in female dairy cattle of breeding age

should wear a long-sleeved shirt and rubber gloves. If accidental skin contact occurs, wash immediately with soap and water. If accidental

eye exposure occurs, flush eyes immediately with water and seek medical attention.

Store away from excessive heat (164'F/40'C) and protect from light.

Indications: For the treatment and control of gastrointestinal roundworms (including inhibited Ostertagia ostertagii) lungworms, grubs, hom flies, sucking and biting lice, and sarcoptic mange mites in cartle.

See package insert for complete indications

WARNING: Cattle must not be treated within 48 days of slaughter for human

consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

This product should not be applied to self or

others because it may be irritating to human

skin and eyes and absorbed through the skin To minimize accidental skin contact, the user

should wear a long-sleeved shirt and rubber

gloves. If accidental skin contact occurs, wash

immediately with soap and water. If accidental eye exposure occurs, flush eyes immediately

Store away from excessive heat (104°F/48°C) and protect from light.

with water and seek medical attention.

Keep this and all drugs out of the reach of children.

Keep this and all drugs out of the reach of

PRECAUTIONS:

and use directions.

PRECAUTIONS:

Recommended Dose

1 mL per 22 lb of body weight.

This product should not be applied to self or others because it may be irritating to human skin and eyes and absorbed through the skin. To minimize accidental skin contact, the user

Recommended Dose:

See package insert for complete indications and use directions

Recommended Dose

mL per 22 lb of body weight.

WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

This product should not be applied to self or others because it may be irritating to human skin and eyes and absorbed through the skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt and rubber gloves. If accidental skin contact occurs, wash immediately with soap and water. If accidental eye exposure occurs, flush eyes immediately with water and seek medical attention

Keep this and all drugs out of the reach of children.

PRECAUTIONS:

Store away from excessive heat (104°F/40°C) and protect from light.

IVER-ON™

IVERMECTIN POUR-ON for cattle

Contains: 5 mg ivermectin/mL

INTERNAL and **EXTERNAL PARASITICIDE for CATTLE**

Kills:

Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies.

WARNING: Flammable! Keep Away From Heat, Sparks, Open Hame and Other Sources of Ignition.

WARNING: Not For Use In Humans.

Net Contents: 33.8 fl oz (1 Liter)

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

MED-PHARMEX, INC. Pomona, CA 91767

ANADA # 200-299 Approved by FDA

Use only in well-ventilated areas or outdoors.

Close container tightly when not in use

Cattle should not be treated when hair or hide is wet since reduced efficacy may be experienced.

Do not use when rain is expected to wet cattle within six hours after treatment.

This product is for application to skin surface only. Do not give orally or parenterally.

Cloudiness in the formulation may occur when IVER-ON is stored at temperatures below 32° F. Allowing to warm at room temperature will restore the normal appearance without affecting efficacy.

Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or adherent materials, e.g. caked mud or manure.

Ivermectin has been associated with adverse reactions in sensitive dogs; therefore, IVER-ON is not recommended for use in species other than

Do not contaminate water by direct application or by the improper disposal of drug containers.

Dispose of containers in an appropriate landfill or

Exp. 3 See package insert for complete indications

Recommended Dose 1 ml. per 22 lb of body weight

WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

This product should not be applied to self or others because it may be irritating to human skin and eyes and absorbed through the skin others because it may be irritating to human skin and eyes and absorbed through the skin. To minimize accidental skin contact, the user should wear a long-sleeved shirt and rubber gloves. If accidental skin contact occurs, wash immediately with soop and water. If accidental exposure occurs, flush eyes immediately with water and seek medical attention.

Keep this and all drugs out of the reach of

PRECAUTIONS:

Store away from excessive heat (164'F/40'C) and protect from light.

IVER-ON™

IVERMECTIN POUR-ON for cattle

Contains: 5 mg ivermectin/mL

INTERNAL and EXTERNAL PARASITICIDE for CATTLE

Kills:

Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies.

WARNING: Flammable! Keep Away From Heat, Sparks, Open Flame and Other Sources of Ignition.

WARNING: Not For Use in Humans.

Net Contents: 8.5 fl oz (250 mL)

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

MED-PHARMEX, INC. Pomona, CA 91767

ANADA # 200-299 Approved by FDA

Use only in well-ventilated areas or outdoors.

Close container tightly when not in use

Cattle should not be treated when hair or hide is wet since reduced efficacy may be experienced.

Do not use when rain is expected to wet cattle within six hours after treatment.

This product is for application to skin surface only. Do not give orally or parenterally.

Cloudiness in the formulation may occur when IVER-DN is stored at temperatures below 32° F. Allowing to warm at room temperature will restore the normal appearance without affecting efficacy.

Antiparasitic activity of ivermectin will be impaired if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or adherent materials, e.g. caked mud or manure.

Ivermectin has been associated with adverse reactions in sensitive dogs; therefore, IVER-ON is not recommended for use in species other than

Do not contaminate water by direct application or by the improper disposal of drug containers.

Dispose of containers in an appropriate landfill or

Use only in well-ventilated areas or outdoors.

Cattle should not be treated when hair or hide is

wet since reduced efficacy may be experienced.

This product is for application to skin surface only.

Do not use when rain is expected to wet cattle

Cloudiness in the formulation may occur when IVER-ON is stored at temperatures below 32° F.

Close container tightly when not in use

within six hours after treatment

Do not give orally or parenterally

Indications: For the treatment and control of gastrointestinal roundworms (including inhibited Ostertagia ostertagil, lungworms grubs, horn flies, sucking and biting lice, and sarcoptic mange mites in cattle.

See package insert for complete indications and use directions.

Recommended Dose: 1 mL per 22 lb of body weight.

WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

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Keep this and all drugs out of the reach of

PRECAUTIONS:

Store away from excessive heat (164°F/40°C) and protect from light.

IVER-ON™

IVERMECTIN POUR-ON for cattle

Contains: 5 mg ivermectin/mL

INTERNAL and EXTERNAL

PARASITICIDE for CATTLE Kills:

Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies.

WARNING: Flammable! Keep Away From Heat, Sparks, Open Flame and Other Sources of Ignition.

WARNING: Not For Use in Humans

Net Contents: 8.5 fl oz (250 mL)

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism.

MED-PHARMEX, INC. Pomona, CA 91767 ANADA # 200-299 Approved by FOA

Use only in well-ventilated areas or outdoors.

Dispose of containers in an appropriate landfill or

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reactions in sensitive dogs; therefore, IVER-ON is not recommended for use in species other than

Do not contaminate water by direct application or by the improper disposal of drug containers.

IVERMECTIN POUR-ON for cattle

INTERNAL and EXTERNAL

Kills:

WARNING: Flammable! Keep Away From Heat, Sparks, Open Flame and Other Sources of Ignition.

WARNING: Not For Use in Humans.

Net Contents: 8.5 fl oz (250 mL)

Consult your veterinarian for assistance in the diagnosis, treatment and control of parasitism

MED-PHARMEX, INC. Pomona, CA 91767

Ivermectin has been associated with adverse

Dispose of containers in an appropriate landfill or

IVER-ON™

Contains: 5 mg ivermectin/mL

PARASITICIDE for CATTLE

Roundworms (including Brown Stomach Worm), Lungworms, Grubs, Sucking Lice, Biting Lice, Mange Mites, Horn Flies.

ANADA # 200-299 Approved by FDA

Indications: For the treatment and control of gastrointestinal roundworms (including inhibited Ostertagia ostertagii, lungworms, grubs, horn flies, sucking and biting lice, and sarcoptic mange mites in cattle. See package insert for complete indications

Recommended Dose:

1 mL per 22 lb of body weight WARNING: Cattle must not be treated within 48 days of slaughter for human consumption. Because a withdrawal time in milk has not been established, do not use in female dairy cattle of breeding age.

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Keep this and all drugs out of the reach of

PRECAUTIONS:

Store away from excessive heat (104°F/40°C) and protect from light.

Allowing to warm at room temperature will restore the normal appearance without affecting efficacy. Antiparasitic activity of ivermectin will be impaired

if the formulation is applied to areas of the skin with mange scabs or lesions, or with dermatoses or erent materials, e.g. caked mud or manure. Ivermectin has been associated with adverse reactions in sensitive dops; therefore, IVER-DN is not recommended for use in species other than Do not contaminate water by direct application or by the improper disposal of drug containers.

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EX P

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